



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>A01K 67/00, C12N 5/16, 15/06</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 00/67568</b> <b>(43) International Publication Date:</b> 16 November 2000 (16.11.00)
<b>(21) International Application Number:</b> PCT/AU00/00408 <b>(22) International Filing Date:</b> 5 May 2000 (05.05.00)  <b>(30) Priority Data:</b> PQ 0202 6 May 1999 (06.05.99) AU PQ 203 6 May 1999 (06.05.99) AU PQ 0204 6 May 1999 (06.05.99) AU PQ 1361 30 June 1999 (30.06.99) AU  <b>(71) Applicant (for all designated States except US):</b> STEM CELL SCIENCES PTY LTD [AU/AU]; 1st Floor, 28 Riddell Parade, Elsternwick, Victoria 3185 (AU).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> BRANDON, Malcolm, Roy [AU/AU]; 8 Tanami Court, Bulleen, Victoria 3105 (AU). FRENCH, Andrew, James [AU/AU]; 41 Hall Street, McKinnon, Victoria 3204 (AU). CHAN, Hongwu [CN/AU]; 69 Baillie Street, North Melbourne, Victoria 3051 (AU). MOUNTFORD, Peter [AU/AU]; 30 Downshire Road, Elsternwick, Victoria 3185 (AU). MUNSIE, Megan, Jayne [AU/AU]; 77 David Street, Hampton, Victoria 3188 (AU).		<b>(74) Agents:</b> TULLOCH, Debra et al.; Freehills Carter Smith & Beadle, Level 47, 101 Collins Street, Melbourne, Victoria 3000 (AU).  <b>(81) Designated States:</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> A PROCESS OF CELL REPROGRAMMING THROUGH PRODUCTION OF A HETEROKARYON		
<b>(57) Abstract</b>  This invention is directed to reprogramming an adult cell nucleus to produce an embryo. The process involves: taking a donor cell or nucleus; fusing the donor nucleus with a recipient cell that has not been enucleated to produce an aneuploid cell; waiting a period of time to allow the donor nucleus to be reprogrammed; and removing the recipient cell nucleus. This process results in an embryo with a reprogrammed nucleus.		